

$^{48}\text{Ca}(\text{C},\text{O})$ , $(^{12}\text{C},^{13}\text{C}),(\text{O},^{17}\text{O})$     1983Pe08,1982Hu10,1978Ko01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 108, 923 (2007)	20-Feb-2007

1978Ko01:  $E(^{16}\text{O})=56$  MeV. Measured  $\sigma(\theta(\text{C.M.})=10^\circ-80^\circ)$ ;  $\Delta E-E$  tof telescope. Timing res $\approx$ 75-95 ps; FWHM $\approx$ 200-300 keV.

DWBA.

1982Hu10:  $E(^{16}\text{O})=158.2$  MeV. Measured  $\sigma(\theta=3^\circ-18^\circ)$ ;  $\Delta E-E$  telescopes. FWHM $\approx$ 500 keV. DWBA.

1983Pe08:  $E(^{12}\text{C})=45$  MeV. Measured  $\sigma(\theta=4^\circ-60^\circ)$ ; magnetic spectrometer, focal-plane ionization chamber. Effective Q value model analysis.

The same states were observed by the three groups, except As noted. Others: see 1995Bu05.

 $^{47}\text{Ca}$  Levels

E(level)	$\sigma(\text{exp})/\sigma(\text{theory})^\dagger$	Comments
0.		Data also obtained on states in $^{17}\text{O}$ and $^{13}\text{C}$ .
$2.01 \times 10^3$	6.47	Not observed by 1982Hu10.
$2.60 \times 10^3$	0.84	$\sigma(\text{exp})/\sigma(\text{theory})$ : other: 0.50 5 (1982Hu10). Doublet.

<sup>†</sup> From 1978Ko01.  $\sigma(\text{theory})$ =predicted strength for single-hole states.